Amendments to the Claims:

Please amend claims 4-6 and 18, and cancel claims 19-23. This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-3. (Canceled)

- 4. (Currently Amended) A method for culturing neural stem cells comprising the step of culturing a neural stem cell or a population of <u>neural stem</u> cells comprising at least one neural stem cell in [[the]] <u>a</u> growth medium comprising 1 ng/ml to 1 mg/ml of supplemented with a combination of growth factors consisting of hepatocyte growth factor (HGF) and fibroblast growth factor-2 (FGF-2).
- 5. (Currently Amended) A method for proliferating neural stem cells comprising the step of culturing a neural stem cell or a population of <u>neural stem</u> cells comprising at least one neural stem cell in [[the]] <u>a</u> growth medium comprising 1 ng/ml to 1 mg/ml of supplemented with a combination of growth factors consisting of hepatocyte growth factor (HGF) and fibroblast growth factor-2 (FGF-2).
- 6. (Currently Amended) A method for differentiating neural stem cells into a population of cells containing neurons and glia cells comprising the step of eulturing differentiating in cell culture a neural stem cell or a population of neural stem cells comprising at least one neural stem cell in [[the]] a growth medium comprising 1 ng/ml to 1 mg/ml of supplemented with a combination of growth factors consisting of hepatocyte growth factor (HGF) and fibroblast growth factor-2 (FGF-2) under conditions that allow the differentiation of the neural stem cell into a population of cells containing neurons and glia cells.

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- 7. (Original) The method of any one of claims 4 to 6, wherein the neural stem cell is derived from mammalian neural tissue selected from the group consisting of brainstem, cerebral cortex, midbrain, spinal cord and ventricular.
- 8. (Previously Presented) The method of any one of claims 4 to 6, wherein the neural stem cell is genetically modified.

9-14. (Canceled)

- 15. (Previously Presented) The method of any one of claims 4-6, wherein the growth medium comprises 1 ng/ml to 100 ng/ml of HGF and FGF-2.
- 16. (Previously Presented) The method of any one of claims 4-6, wherein the growth medium comprises 1 ng/ml to 20 ng/ml of HGF and FGF-2.
- 17. (Previously Presented) The method of any one of claims 4-6, wherein the HGF and FGF-2 are maintained in equal concentrations in the growth medium.
- 18. (Previously Presented) The method of any one of claims 4-6 claim 6, wherein the majority of the population of cells are neurons wherein the population of cells differentiated from the neural stem cell comprises more neurons than glia cells.

19-23. (Canceled)